

TROUBLESHOOTING

CAN'T HEAR A PERSON SPEAKING?

Increase headset volume using the headset volume button on the side of the belt pack. Push the + symbol button until you reach desired volume. In extremely loud environments, you will need to use the dual ear muff headset with noise cancelling properties. If you still can't hear, you may be out of range and need to move closer to the user network.

MICROPHONE NOT PICKING UP YOUR VOICE?

First, adjust the microphone sensitivity setting on the side of the belt pack by pushing the + button incrementally until you reach desired sensitivity level. Move the microphone closer to your mouth and speak up clearly. For example, people with softer voices should set their belt packs to a more sensitive microphone level.

BACKGROUND NOISE TRANSMITTING ACROSS SYSTEM?

Reduce the microphone sensitivity setting by pushing the – symbol button until you reach the desired level.

TRANSMISSION IS WEAK?

Your rechargeable batteries may be running low. If batteries are weak, the Group LED's will slowly flash. Your belt pack needs to be recharged. If you need to keep working, you can use disposable alkaline batteries.

PROPER INTERCOM ETIQUETTE

Anchorman is designed to allow 4 people to speak at once in close quarters and one person to speak at a time when the belt packs are far apart.. Use proper intercom etiquette – wait to break into the conversation network until the other belt pack users have stopped speaking. If a large number of users are in the network, we suggest PTT to allow members to jump in and out of conversation.

ANCHOR AUDIO CUSTOMER SERVICE

888/444-6077 310/784-2300

ANCHORMAN TECHNICAL SPECIFICATIONS

Range (line of sight)		Battery Charge Time	5.5 hours = Full Charge
Duplex	US: 250' / 75 m EU: 200' / 160 m	Battery Life – NiMH Rechargeable	
		Receive Only	7.5 hours
Simplex	US: 2,500' / 750 m EU: 1,000' / 305 m	Continuous Transmit	3.5 hours
FCC License (US users only)	User Registration	Battery Life – Alkaline Disposable	
Selectable Groups	4	Receive Only	3.0 hours
Frequency	US: 944 – 952 MHz EU: 863 – 865 MHz	Continuous Transmit	1.0 hours
Frequency Settings	4 per Group	Headset Connector	4-pin male XLR
Output Power	US: 17 dBm (50mW) EU: 5 dBm (5mW)	Antenna	1/2 wavelength dipole
Microphone	Dynamic	Dimensions & Weight	
DC Requirements	9V – 1.2A	BP-900/BP-900EU	4 x 4.65 x 1.75" / 101.6 x 118.1 x 44.5 mm 13 oz / .37 kg (batteries installed)
Batteries	4 "AA" NiMH rechargeable	H-200S	3.5 x 7.4 x 7.9" / 8.9 x 18.8 x 20 cm 13 oz / .37 kg
FCC ID: J8ZBP-900		H-200	3.5 x 7.4 x 7.9" / 8.9 x 18.8 x 20 cm 16 oz / .45 kg
CE0976		Antenna	7.18" / 182.372 mm
		Antenna Extension	3.5" / 89 mm



Anchor Audio, Inc.

Portable Sound Systems • Torrance, California

For videos on how to setup & use your AnchorMAN wireless intercom system go to:

www.anchoraudio.com/anchorman.php



AnchorMAN^{PATENT PENDING} WIRELESS INTERCOM SYSTEM

OWNER'S MANUAL



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A MESSAGE FROM THE OWNER

Thank you for choosing an Anchor Audio wireless intercom system. Our products incorporate state-of-the-art design and the finest quality of materials and workmanship. We're proud of our products and appreciate the confidence which you have shown by selecting an Anchor system.

I hope you'll take a few minutes to review this manual. We've incorporated several unique features into our products, and your knowledge of how to use them will enhance the performance and your enjoyment of the system.



Janet Jacobs, President
on behalf of all Anchor Employees

GETTING STARTED

Please check your new unit carefully for any damage which may have occurred during shipment. Each Anchor product is carefully inspected at the factory and packed in specially designed boxes for safe transport.

Notify the freight carrier immediately of any damage to the shipping box or product. Repack the unit in the original box and wait for inspection by the carrier's claim agent. Notify your dealer of the pending freight claim.

NOTE: All damage claims must be made with freight carrier!

RETURNING SYSTEMS FOR SERVICE OR REPAIR

For service or repair, please contact the dealer where system was purchased or Anchor Audio Customer Service (800/262-4671 or 310/784-2300) to obtain a RA (Return Authorization) number. All shipments to Anchor Audio must include RA number and be shipped prepaid. C.O.D. shipments will be refused and returned at your expense.

Customers outside the USA must contact dealer where system was purchased for service or repair instructions.

IMPORTANT: Save shipping box & packing materials, they're specially designed to ship your unit!

WARRANTY REGISTRATION & INFORMATION

Please go to our website, www.anchoraudio.com, and select "Warranty Registration". Completing this online registration form will activate your limited two-year warranty.

Warranty is void if the belt pack case or headset has been opened, screws have been removed or there is evidence of tampering.

WHAT IS ANCHORMAN?

AnchorMAN is a wireless full duplex intercom system that is easy to configure and simple to operate. Up to four belt packs can talk at once and an unlimited number of belt packs can listen. Belt packs can be assigned to up to four separate groups. The transmitter and receiver operate utilizing FDMA techniques in the 944 – 952 MHz range without the need for a base station.

For videos on how to setup & use your AnchorMAN wireless intercom system go to:
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CERTIFICATION INFORMATION

INFORMATION TO USER

The Anchor Audio BP-900 transmitter/receiver complies with part 74 of the United States Federal Communications Commission. Licensing of Anchor equipment is the user's responsibility and licensing depends on the user's classification and user's application. Anchor Audio strongly urges the user to contact the appropriate telecommunications authority for clarification. For info: <http://wireless.fcc.gov/uls/index.htm?job=home>.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for Class B Digital Device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult dealer or an experienced radio/TV technician for help

Any changes or modifications not expressly approved by the party responsible for compliance could void user's authority to operate equipment.

FCC RF EXPOSURE STATEMENT

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BELT PACK OPERATION

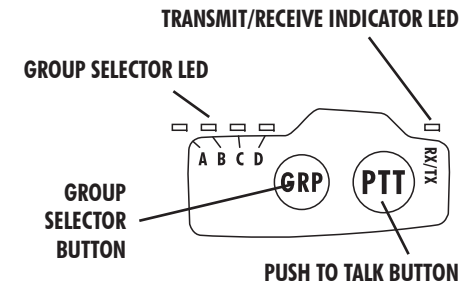
The ergonomically designed BP-900 AnchorMAN belt pack features an XLR headset jack, heavy duty antenna, headset volume control, microphone sensitivity control, group selection, PTT (*push to talk*) and transmission indicator LED. The belt pack is powered by 4 (*included*) "AA" NiMH rechargeable batteries.

GROUP SELECTOR

To create a belt pack group, each member must set their Group Selector to the same letter — A, B, C or D. Press the GRP Button to change groups. The LED will light indicating the selected Group (A, B, C, D).

Example: Film Crew

The director assigns photography to Group A, sound to Group B and lighting to Group C. He can then be a part of any group by simply pressing the Group Selector Button to the desired group.



Due to the unique environmental conditions found at some locations (*Example: Next to a radio station transmission tower.*) you may find that one of the four Group settings experiences disruptive interference. Simply discontinue use of the effected Group and try the three remaining Groups to identify the clearest signal. For best results try the Group farthest from the affected Group first (*If Group A has interference try Group D*).

GROUP SELECTION FOR EU USERS

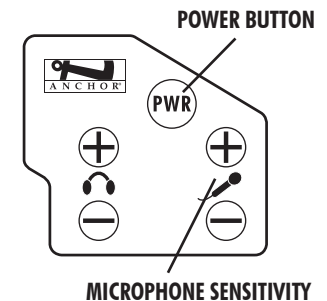
To change Groups set DIP switch 3 as follows:

DIP 3 = UP/Off	—	Groups A & B
DIP 3 = DOWN/On	—	Groups C & D

PUSH TO TALK MODE / ACTIVE MODE

Push to Talk Mode (*PTT*) — Default mode when the PWR button is pushed. Press PTT button to speak to Group, release PTT button to listen.

Active Mode — Hands free voice activated operation (*VOX*) requires adjusting the Microphone Sensitivity level. Upon power up, belt packs default to low requiring PTT operation. Push the "+" button repeatedly to increase mic sensitivity until transmission is activated by the sound of your voice.



⚠ EU USERS: EU regulations limit continuous transmission time to five minutes. This will require you to release the PTT button for one second before continuing for another five minute maximum time period.

RECHARGEABLE BATTERIES

AnchorMAN belt packs include 4 "AA" NiMH rechargeable batteries and AC Gang Charger. Fully charged NiMH batteries yield approximately 7 hours of normal use. Alkaline "AA" batteries can be used but battery life will decrease by half. Connecting the AC charger to a belt pack with alkaline batteries installed could seriously damage the system.

INSTALL BATTERIES

1. Slide battery compartment door to remove
2. Install 4 "AA" NiMH rechargeable batteries

NOTE: Place "-" end of battery against spring.

3. Replace battery compartment door

NOTE: Flashing Group LED indicates battery low.

CHARGE BATTERIES

1. Connect Gang Charger (*included*) into Charging Port on bottom of belt packs
2. Plug Gang Charger into AC outlet (*Charging Port LED on = battery charging*)
3. Charge belt pack for 5 hours (*Charging Port LED off = battery fully charged*)

CAUTION: Do not attempt to charge alkaline batteries.

Some users are required (*for emergency preparedness, etc.*) to leave their AnchorMAN units plugged into the charger at all times. For these applications we recommend replacing the rechargeable batteries every 12 months.

NETWORK EXPANSION

CAN I USE MY OWN HEADSET?

The AnchorMAN is designed to work with dynamic microphone elements.

Headset pin configuration: 1 = Mic (-) / 2 = Mic (+) / 3 = Headphone (-) / 4 = Headphone (+)

Shields can be connected to chassis ground pin.

I'VE RUN OUT OF BATTERY LIFE, NOW WHAT?

You can substitute "AA" alkaline batteries for the rechargeable batteries. However, connecting the battery charger to the belt pack when alkaline batteries are installed could seriously damage your belt pack.

CAN MY ANCHORMAN WORK WITH OTHER WIRELESS INTERCOM SYSTEMS?

No. AnchorMAN uses a proprietary design and software exclusive to the product.

CAN SOMEONE EAVESDROP ON MY CONVERSATION?

No. AnchorMAN is not penetrated by common scanners.

IF I BREAK A HEADSET, WHAT DO I DO?

The H-200 and H-200S headsets are covered by a two-year warranty. Follow the instructions in the Getting Started section on page 2 for a Return Authorization. AnchorMAN headsets are sold separately if a replacement is needed.

CAN I ADD BELT PACKS TO MY NETWORK?

Yes. The system is designed to accommodate an unlimited number of listeners. However, the maximum number of people that can speak at once in one group is limited to four. Belt packs that are set to the same USER ID (DIP 1 and 2) and group will interfere if they transmit at the same time. However, if two users are not expected to speak at the same time, they can share a USER ID.

USING THE WINGMAN W/ ANCHORMAN

WHAT IS WINGMAN?

WingMAN is an interface station that allows full duplex communication between AnchorMAN belt packs and unbalanced party-line intercom systems.

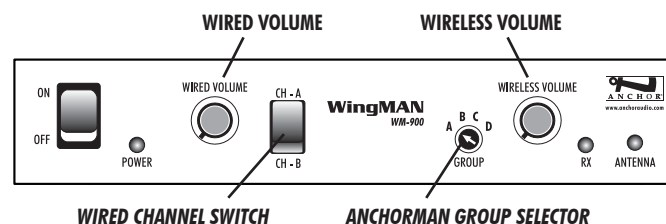
The WingMAN includes a transceiver that operates in a FDMA format which is compatible with AnchorMAN belt packs. An integrated interface circuit makes it possible to easily interface the transceiver with party-line intercom systems. This allows users to easily switch communications between one of the four AnchorMAN groups and one of two party line groups.

BASIC WINGMAN SETUP & OPERATION

For detailed instructions on using the WingMAN please consult the owners manual that came with the unit.

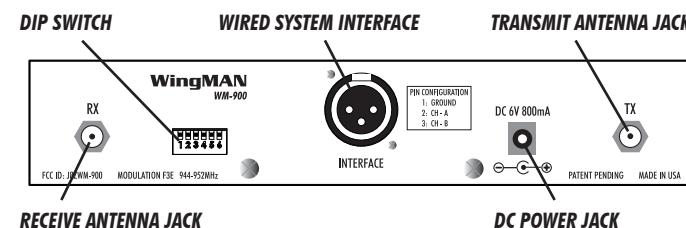
1. Attach supplied antennas to the "RX" & "TX" back panel jacks.
2. Connect your wired intercom system to the 3-pin XLR back panel jack "INTERFACE".
3. Connect DC power supply.
4. Set DIP Switch #4 to designate wired intercom system.
DIP Switch #4 Settings:
ON (DOWN) — 100 ohm systems (Anchor Audio PortaCOM)
OFF (UP) — 200 ohm systems (Clear-Com or RTS)
5. ANCHOR AUDIO PORTACOM USERS ONLY: Select wired channel according to PIN CONFIGURATION.
6. Set GROUP knob to the AnchorMAN belt packs GROUP.
7. Turn the WingMAN power switch to ON.
8. Adjust WIRED & WIRELESS VOLUME to desired listening levels.

NOTE: AnchorMAN belt packs assigned to the same Group & Frequency as the WingMAN will experience interference when transmitting.



WINGMAN FRONT & BACK PANELS

Model Shown: WM-900



CHANGING USER ID SETTINGS

Each AnchorMAN belt pack is preset at the factory with an individual USER ID (1 – 4). If more than four users are required in a single group, use DIP switches 1 & 2 to assign belt packs to a USER ID. In groups of five or more, users will be required to share USER ID's. Each belt pack will be able to monitor all communications within the group, but only one user with a shared USER ID will be able to transmit at a time.

When you receive your AnchorMAN 4-user set each belt pack is labeled with 1, 2, 3 or 4, this number corresponds to the USER ID assigned to that unit at the factory. Additional labels have been included (numbers 1 – 4) to be used when changing USER ID's. Use the following tables when changing USER ID settings.

	US Frequencies (MHz)			
	Group A	Group B	Group C	Group D
User 1	945	945.4	945.8	946.2
User 2	946.6	947	947.4	947.8
User 3	948.2	948.6	949	949.4
User 4	949.8	950.2	950.6	951

	EU Frequencies (MHz)			
	Group A	Group B	Group C	Group D
User 1	863.2	863.3	863.4	863.5
User 2	863.6	863.7	863.8	863.9
User 3	864	864.1	864.2	864.3
User 4	864.4	864.5	864.6	864.7

Questions? Contact Technical Support at 888-444-6077 or Refer to the Technical Documents at www.anchoraudio.com/anchorman.php.

SETTING DIP SWITCH FEATURES

The DIP Switches are located one the belt pack behind the antenna, to access flip antenna up. A description of DIP 1 & 2 can be found at the top of this page and DIP 3 is covered on Page 3 under "Group Selection For EU Users".

CAUTION: Turn Belt Pack power OFF before making any changes to DIP switch settings.

DIP SWITCH 4 – ENABLE FIVE-MINUTE "TIMED" VOX MODE

When DIP 4 is set to the ON position, VOX transmissions will be limited to approximately 5 minutes. Each subsequent voice trigger will reset the five-minute timer.

⚠ EU USERS: EU regulations limit continuous transmission time to five minutes.

DIP SWITCH 5 – ENABLE ADJUSTABLE SQUELCH LEVEL (RSSI)

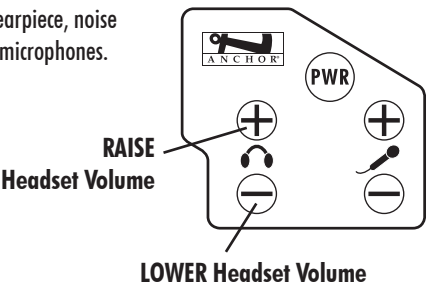
Set DIP 5 to the ON position to use the Headset Volume Control buttons to adjust the squelch level. Use this feature to minimize RF interference from the surrounding area.

NOTE: A high squelch setting reduces interference but may reduce performance range.

HEADSET OPERATION

AnchorMAN wireless intercom systems use both single and dual-earpiece, noise cancelling headsets featuring 4-pin XLR connectors and dynamic microphones.

1. Put on headset and adjust for a firm, comfortable fit
2. Connect headset cable to belt pack jack using the XLR connector
3. Position boom microphone close to mouth
4. Headset Volume Control buttons are on belt pack adjust volume by pushing "+" or "-" repeatedly



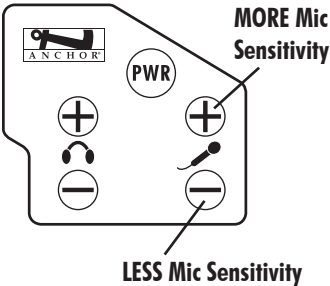
**H-200
Dual-Earpiece
Headset**



**H-200S
Single-Earpiece
Headset**

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MICROPHONE SENSITIVITY SETTING



Use the Microphone +/- buttons to adjust voice detection sensitivity levels. Press + for more voice detection sensitivity and - for less. The highest + setting will pick up your voice even at a whisper.

The most sensitive settings should be used in very quiet environments with little or no back ground noise. Experiment with the Microphone Sensitivity level to ensure voice detection picks up the beginning and end of each sentence.

Remember, what you hear in your headset is what other members of the network will hear.

CAUTION: Setting voice detection to an overly sensitive level can cause ambient background noise to trigger transmission, disturbing all members of the network.

BASIC SYSTEM OPERATION

1. Charge batteries for 6 hours or until charger LED turns of

NOTE: Belt packs operate about 7 hours per charge.

2. Plug headset cable into belt pack & adjust boom
3. Hold down PWR button to turn belt pack ON
4. Set belt packs to same GROUP
5. Adjust Headset Volume level
6. Press & hold PTT button to talk, (belt pack top) release PTT button to listen

NOTE: Repeat steps for each belt pack in the network.

See page 3/Active Mode for voice activated operation.

SYSTEM RANGE

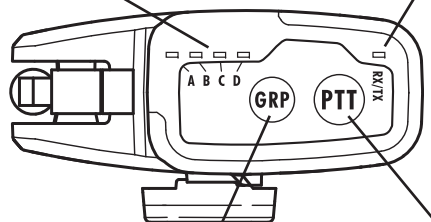
AnchorMAN belt packs can communicate through many solid objects. However, if the solid objects contain metal or liquids, range will be reduced. Also, range will reduce as the path between belt packs becomes more obstructed. As belt packs get farther apart AnchorMAN automatically reverts to simplex mode for a maximum range of 2,500'/750m (EU max. range: 1,000'/305m). This means you will operate in Push to Talk mode and speak one person at a time. If the signal fades the belt packs are too far apart and you will need to move closer together.

SYSTEM COMPONENTS

- BP-900** Wireless Belt Pack
- BP-900EU** Wireless Belt Pack (European frequencies)
- H-200** Dual Ear Muff Headset
- H-200S** Single Ear Muff Headset
- GC-900** Gang Charger
- HC-1600A** Pelican Hardcase w/ Custom Foam Insert
- MAN-40** Four User Package:
- 4 - Belt Packs
 - 4 - Headsets (single or dual muff)
 - 1 - Gang Charger
 - 1 - Lightweight, high-density storage case

GROUP SELECTOR LED

TRANSMIT/RECEIVE INDICATOR LED



GROUP SELECTOR BUTTON

Page 3

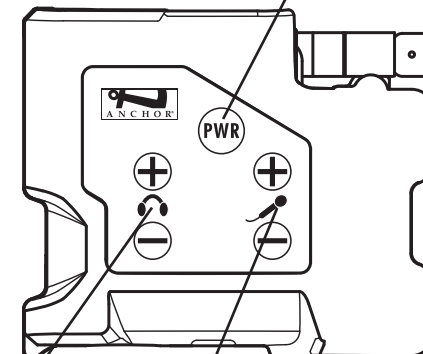
PUSH TO TALK BUTTON

Page 3

ANCHORMAN BELT PACK

Model Shown: BP-900

POWER BUTTON



HEADSET VOLUME CONTROL

Page 5

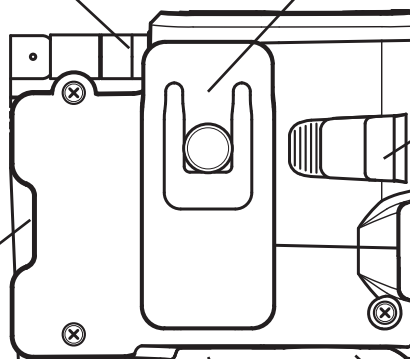
MICROPHONE SENSITIVITY

Page 5

ANTENNA JACK

SMA Connector

BELT CLIP



BATTERY COMPARTMENT

Press lightly & slide to remove cover

DIP SWITCHES

Preset at factory

DIP Settings:

SWITCH	USER 1	USER 2	USER 3	USER 4
1	UP	DOWN	UP	DOWN
2	UP	UP	DOWN	DOWN

HEADSET JACK

XLR Connector

CHARGER PORT & CHARGER LED

Connect Gang Charger for NiMH batteries

HEAVY DUTY ANTENNA

For videos on how to setup & use your AnchorMAN wireless intercom system go to:
www.anchoraudio.com/anchorman.php

TROUBLESHOOTING?

INTERFERENCE IN ANCHORMAN HEADSETS?

Switch your belt pack settings to a different AnchorMAN USER GROUP: A, B, C or D.

BACKGROUND NOISE TRANSMITTING ACROSS SYSTEM?

Reduce the headset microphone sensitivity level. Adjust the AnchorMAN mic sensitivity with the +/- Microphone buttons on the belt pack.

TRANSMISSION IS WEAK?

Your rechargeable batteries may be running low. If batteries are weak, the Group LED's will slowly flash. Your belt pack needs to be recharged. If you need to keep working, you can use disposable alkaline batteries.

PROPER INTERCOM ETIQUETTE

WingMAN is an interface station that allows full duplex communication between AnchorMAN belt packs and unbalanced party-line intercom systems. Use proper intercom etiquette – wait to break into the conversation network until the other system users have stopped speaking.

ANCHOR AUDIO CUSTOMER SERVICE

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www.anchoraudio.com

WINGMAN TECHNICAL SPECIFICATIONS

Range (line of sight)	US: 1,500' / 450 m EU: 1000' / 305 m	Antenna	1/2 wave length dipole
FCC License (US users only)	User Registration	Antenna Length	7.2" / 182 mm
Selectable Wireless Groups	4	Dimensions	8.5 x 4.5 x 1.7 in / 21.6 x 11.4 x 4.32 cm
Selectable Wired Channels	2	Weight	2.4lbs / 1.1kg
Frequency	US: 944 – 952 MHz EU: 863 – 865 MHz	FCC ID: J8ZWM-900	
Frequency Settings	4 per Group		
Output Power	US: 8 dBm EU: 5 dBm		
DC Requirements	6V – 0.5A		
Interface Connector	3-pin female XLR		(Specifications subject to change without notice)



Anchor Audio, Inc.

Portable Sound Systems • Torrance, California

NEED MORE HELP? View demonstration videos on proper WingMAN setup & operation:
www.anchoraudio.com



WINGMAN

INTERCOM ADAPTOR

OWNER'S MANUAL



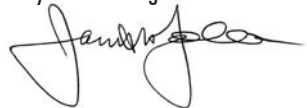
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WHAT IS WINGMAN?

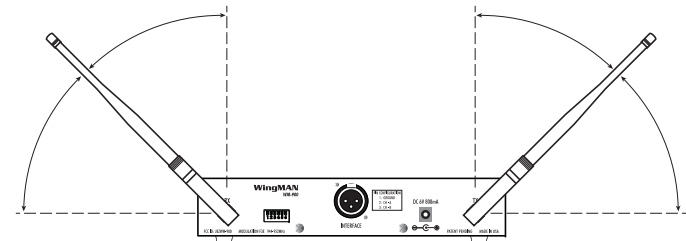
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This allows users to easily switch communications between one of the four AnchorMAN groups and one of two party line groups.

ANTENNA PLACEMENT

In order to maximize system range/performance the WingMAN is designed with dual antennas. Generally, the greater the antenna separation the better WingMAN will perform. After connecting both antennas adjust their positions until Strong signal quality is indicated by the ANTENNA LED.



The ANTENNA LED shows range/signal quality based on antenna separation:

RED = Weak Signal / Green = Strong Signal

For increased range and better signal quality mount antennas using the optional Antenna Mounting Kit (includes cables & mounting hardware) to achieve maximum separation. We recommend a minimum of 10' between antennas.

WIRELESS TELEX (BTR-700) USERS

Follow these Setup Instructions to connect the WingMAN to a BTR-700 Telex wireless base station:

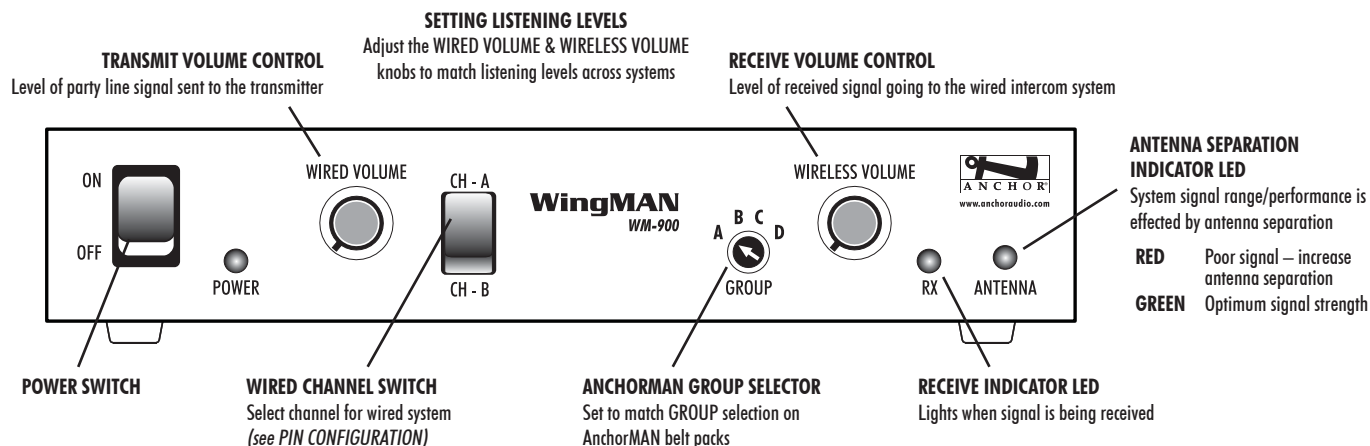
1. Connect your BTR-700 (2-wire 3 pin XLR) output to the 3-pin XLR back panel jack "INTERFACE".
2. Set WingMAN WIRED CHANNEL SWITCH to CH B.
3. Level adjustment on BTR-700 using the IN knob on the BTR-700 front panel
4. Set WIRED & WIRELESS VOLUME on WingMAN to maximum levels.

NEED MORE HELP? WingMAN setup & operation videos: www.anchoraudio.com

BASIC SYSTEM OPERATION

1. Attach supplied antennas to the "RX" & "TX" back panel jacks.
2. Connect your wired intercom system to the 3-pin XLR back panel jack "INTERFACE".
3. Connect DC power supply.
4. Set DIP Switch #4 to designate wired intercom system.
DIP Switch #4 Settings:
ON (DOWN) – 100 ohm systems (Anchor Audio PortaCOM)
OFF (UP) – 200 ohm systems (Clearcom or RTS)
5. ANCHOR AUDIO PORTACOM USERS ONLY: Select wired channel according to PIN CONFIGURATION on back panel.
6. Set GROUP knob to the AnchorMAN belt packs GROUP.
7. Turn the WingMAN power switch to ON.
8. Adjust WIRED & WIRELESS VOLUME to desired listening levels.

NOTE: AnchorMAN belt packs assigned to the same Group & Frequency as the WingMAN will experience interference when transmitting.



WINGMAN FRONT/BACK PANELS

Model Shown: WM-900

DIP SWITCHES

USER ID Selection – DIP Switches 1 & 2

WingMAN uses one of four GROUP/USER IDs to communicate with the AnchorMAN. Select a USER ID (1 – 4) by setting DIP Switches 1 & 2 on the back panel:

SWITCH	USER 1	USER 2	USER 3	USER 4
1	UP	DOWN	UP	DOWN
2	UP	UP	DOWN	DOWN

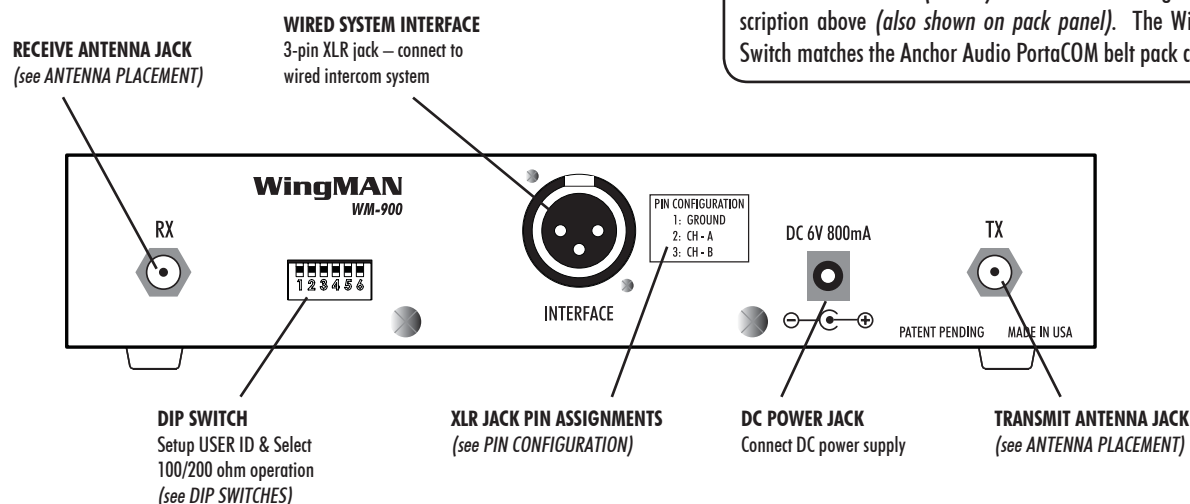
AnchorMAN belt packs with the same GROUP & USER ID setting may experience significant transmission interference.

Wired Interface Setup – DIP Switch 4

Determines impedance match of the wired interface.

DIP Switch #4 Settings:

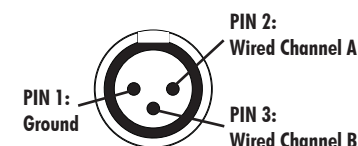
- ON (DOWN) – 100 ohm systems (Anchor Audio PortaCOM)
OFF (UP) – 200 ohm systems (Clearcom or RTS)



PIN CONFIGURATION

The WingMAN interface connector uses a 3-pin XLR jack on the back panel. Connect the interface box with the wired intercom system using the 3 pin XLR jack on the rear panel.

Pin Configuration



Select Wired Channel (A or B) to be used according to the pin description above (also shown on pack panel). The Wired Channel Switch matches the Anchor Audio PortaCOM belt pack channels.